

Lunar Flywheel weekly meeting- Minutes

Wednesday; October 12, 2016; 3:30pm

Present: Dr. Herb Hess, Dr. Feng Li, Justin Pettingill, David Arnett, Nick Bachus, Matt Phillips, Kyle Petersen, Cooper Atkinson, Ian Tanimoto, Andrew Jones, Brian Cartwright, Shea Morrison

Absent: None

GJ 218 Conference Room

Moderator: Andrew Jones

Minutes: Matt Phillips

Updates:

- Stator Design Team:
 - Electrical team will be re-running the experiment later today
 - Mechanical team has finished the material testing for Justin
 - Matlab licensing issues has caused issues with running experiments for Justin
 - Justin is trying to get his license upgraded to the research version
 - Justin will be giving a summary of his data next week
 - Met last week:
 - Create a general idea for inputs of the model
 - How each model will relate to each other
 - Mechanical team will look into getting Matlab to communicate with ANSYS.
- Controls Team:
 - Met yesterday morning to go over the code but spent most of the time going over snapshot requirements.
 - In the review session they found some of the main loop code but it is poorly commented.
 - David is looking for the microcontrollers that the code is running on

Update from weekly Tuesday Meeting with Dr. Berven

- Dylan has given a number for the force per area of the magnets
 - This number is set at a certain gap distance
- Running the liquid nitrogen through the stator will cause evaporation
- Task reports for Tuesday meetings need to be submitted by Monday at 5pm
- Design the system to work in Earth conditions not moon conditions
- Dylan's email: more6526@vandals.uidaho.edu

Budget Update:

- \$2000 for hardware costs and \$500 for software costs.
- We already has licensing for Power Systems.
- Dr. Law approved the budget
- Budget breakdown is on the onedrive.

Other Updates

- Ask Dr. Berven to get keys to the lab. One per group.
- Need to get a group photo for the poster and portfolio

Senior Design Items

- Logbooks due Friday October 14th to Dr. Li (Box outside his office)
- November 4th the first wiki page draft is due.
- Design Review is the two weeks before Thanksgiving. Need to choose a date early to make sure we get a good time.

Presentations for theses sections

Andrew Jones – Kisling Chapter 6 – AMB Control System

Ian Tanimoto – Kisling Chapter 5 – Control Algorithms

Next week: